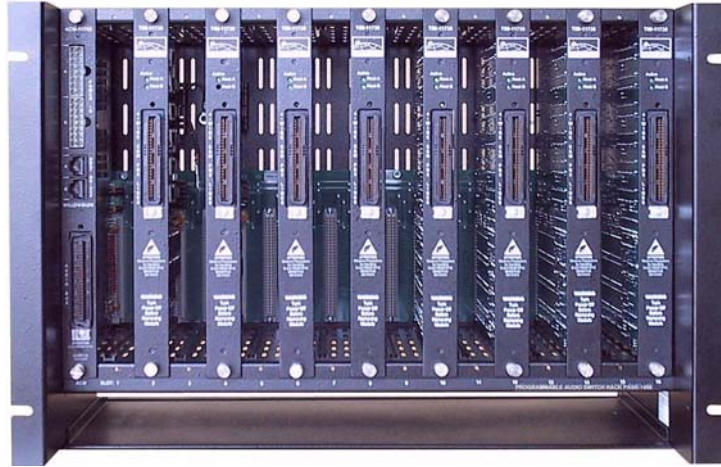


Programmable Audio Switch (PAS)



Programmable Audio Switch Chassis



Programmable Audio Switch Power Supply

General Description

The audio switch is a custom hardware device developed by Willowglen Systems Inc. to provide enhanced and programmable switching control of numerous private line audio interconnections.

The PAS interfaces with 4-wire E&M lines (such as those provided for PABX Trunk lines) and switches a line from any input to one or more outputs.

The PAS supports a number of operation functions including switch matrix, broadcast, monitor, DTMF detection/transmit, and default routing.

The Switch Matrix function is used to switch an input trunk to an output trunk. The Broadcast function connects one input to multiple outputs. The Monitor function combines two PAS audio bus lines to be directed to a speaker or a headset ear piece. With the Monitor function, several speakers can monitor the same audio. The DTMF functions enables DTMF detection and transmission on any channel. Only one channel can be assigned, for DTMF detection, per Trunk Interface module at one time. Finally, default routing connects a PABX trunk line to the adjacent default line in case of power failure or by command.

Benefits

- The PAS creates a broadcast connection instantaneously.
- The PAS uses E&M signal lines to transmit PTT signals
- The PAS allows default connections between adjacent channels commonly used to allow station Public Address PA announcements to be normally directed through the PABX.
- The PAS allows the monitoring of any channel
- Redundant Power Supply
- Redundant communication
- Independent Trunk Interface cards including controller

General Specifications and Components

Trunk Interface Module



This module performs the audio interconnection functions for one to six 4-wire E&M audio channels. The module supports Type-I, Type-II, Type-IV and Type-V E&M interfaces. The E&M mode can be configured independently for each channel. A 50-pin connector on the front panel is used to connect to the field devices.

The module has the following interconnection modes:

- **Switch Matrix Function:** connecting any input to any output
- **Broadcast Function:** connecting any input to multiple outputs
- **Monitor Function:** combining any two signals to a single output (channels 1 to 4 only)
- **DTMF Detection and Transmission:** one Tx and one Rx channel per module at a time
- **Default Routing:** connects each TIM channel to a paired channel in case of power failure

The module supports one Tone Radio Control (TRC) channel can be connected to channel 5 or channel 6, or can be left disconnected.

Up to 16 modules can be installed in a Programmable Audio Switch (PAS) chassis. The PAS accepts serial commands from redundant host computers to control interconnection of local trunk lines, phones, and public address (PA) audio signals.

Audio Connection Module



This module is a power, audio bus, and serial communication connection interface for the Programmable Audio Switch chassis and components. The module provides port connections for dual redundant power supplies and dual redundant host computer communication interfaces. The module supports full duplex RS-232 on each serial communication port.

A front panel connector is used to connect 22 backplane audio channel signals to an optional second Programmable Audio Switch chassis.

Power Supply

Input power is provided by two redundant, rack mounted, removable power supplies for 5 VDC @5 A, 12 VDC @21 A, and 48 VDC @ 5.1 A.

The power supply input specifications are: 85-260 VAC, 47-63 Hz 700W.

Dimensions and Weight Chassis (with slots filled)

- **Size:** 483 mm x 311 mm x 305 mm (19.0 in. x 12.3 in. x 12.0 in.)
- **Weight:** 22.7 kg (50 lb.)

Power Supply

- **Size:** 483 mm x 89 mm x 356 mm (19.0 in. x 3.5 in. x 14.0 in.)
- **Weight:** 6.8 kg (15 lb.)

For additional information on specific configurations and pricing, please contact Willowglen Systems Inc.

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